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(30) Priority:	(71) Applicant: **TOSHIBA CORP**
(43) Date of application publication: **03.08.01**	(72) Inventor: **SHIMADA MASAYOSHI**
(84) Designated contracting states:	(74) Representative:

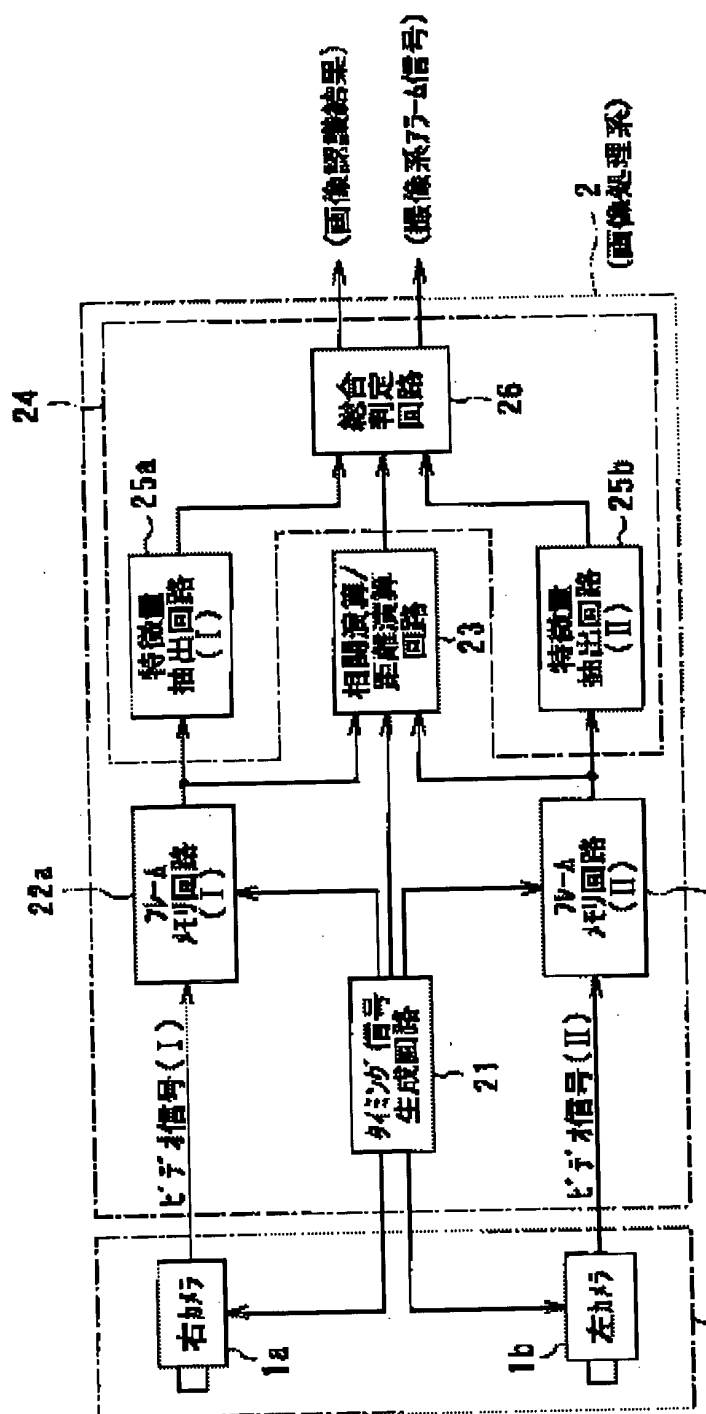## (54) IMAGE PROCESSING SYSTEM HAVING SELF-DIAGNOSTIC FUNCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To realize a self-diagnostic function that recognizes malfunction of the eye of the system itself like in a human eye with a relatively simple image processing configuration at a relatively low cost even in the case of mounting a monitor camera having a plurality of image pickup elements on a traveling object.

SOLUTION: This image processing system having the self-diagnostic function is provided with a plurality of image pick-up means (a pair of left and right cameras 1a and 1b for a stereo camera) which image the surrounding of a vehicle (traveling object) from a monitoring position on the vehicle and obtain a video signal, a monitor means (correlation

operation and distance operation circuit 23) which monitors the surrounding of the vehicle by using each video signal obtained by the image pick-up means, and a self-diagnosing means (characteristic quantity extraction circuit (I) 25a, (II) 25b and an integrated decision circuit 26) which relatively compares frame images of the same time of respective image signals obtained by the plurality of image pick-up means when the monitor means performs monitoring and performs self-diagnosis of the soundness of the plurality of image pick-up means in accordance with the comparison results.

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